



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/557,980	11/22/2005	Yutaka Kamaguchi	SONYJP 3.3-391	6450
530	7590	08/03/2010	EXAMINER	
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090				DANG, DUY M
ART UNIT		PAPER NUMBER		
2624				
			MAIL DATE	DELIVERY MODE
			08/03/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/557,980	KAMAGUCHI, YUTAKA	
	Examiner	Art Unit	
	Duy M. Dang	2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 and 13-18 is/are pending in the application.
 - 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) 1-6,8,13 and 15-18 is/are allowed.
- 6) Claim(s) ____ is/are rejected.
- 7) Claim(s) 7 and 14 is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 22 November 2005 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/22/05 & 5/25/06</u> . | 6) <input type="checkbox"/> Other: ____ . |

DETAILED ACTION

1. Applicant's amendment filed on 11/22/2005 has been entered and made of record.

Currently claims 1-8 and 13-18 are pending and claims 9-12 were canceled.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-6, 8, 13 and 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Ward et al. (USPN 6,061,100, referred as Ward hereinafter).

Regarding claim 1 as a representative claim, Ward teaches a television receiver that inputs encoded picture data that contains motion information used when the picture data was encoded and moving picture data that does not contain the motion information (see figures 1, 10A and 10B, and 11), the television receiver comprising:

decoding means for decoding the encoded picture data according to the motion information and for outputting the decoded picture data (see decoder depicted in figures 10A and 10B);

picture process means for performing a picture process on the decoded picture data and for outputting the processed data to a display section (see processor depicted in figures 10A and 10B; items 14, 28 and 34 of figure 11);

and time axis compensation means for supplying motion information according to the decoded picture data to the picture process means in synchronization with the supply of the

decoded picture data to the picture process means (see delay depicted in figures 10A and 10B and cascade delay (frame delay) in figure 1),

wherein the picture process means performs a picture process on the decoded picture data according to the motion information supplied from the time axis compensation means (see processor depicted in figures 10A and 10B; items 14, 28 and 34 of figure 11).

Regarding claim 2, Ward further teaches wherein the encoded picture data contains difference data against a reference picture (see negative/positive motion pixel in figure 3 and items 200 of figure 2), and the decoding means adds past or future picture data generated according to the motion information and the difference data to generate the decoded picture data (see 210 of figure 2 and 480 of figure 4).

Regarding claim 3, Ward further teaches wherein the motion information is a moving vector detected for each macro block composed of a plurality of pixels (see figure 3: note circles indicating negative/positive motion pixel), and the picture process means references the moving vector for each macro block and performs the picture process (see figure 3: picture 211-213 are processed and outputted as 371, 371 & 373 which are subsequently processed as shown in figure 4).

Regarding claim 4, Ward further teaches wherein when the motion information supplied from the time axis compensation means exceeds a predetermined value, the picture process means performs a moving picture adaptive process on the picture data (see detail/motion adaptive spatial filter depicted in figure 1s and 6) and when the motion information supplied from the time axis compensation means is less than or equal to the predetermined value, the

picture process means performs a still picture adaptive process on the picture data (see motion adaptive temporal filter depicted in figures 1 and 5).

Regarding claims 5, 15, and 17-18, Ward further teaches wherein the picture process means is a noise reduction circuit that adds picture data of successive frames to the decoded picture data at a predetermined ratio according to the motion information supplied from the time axis compensation means (see 530 and 540 of figure 5).

Regarding claims 6 and 13, Ward further teaches motion detection means for inputting the moving picture data, detecting motion information of the moving picture data, and supplying the detected motion information to the picture process means (see temporal motion detection depicted in figures 1 and 2; also refer to figure 11), wherein when the moving picture data are input to the motion detection means, the picture process means performs a picture process on the moving picture data according to the detected motion information (see pattern recognition depicted in figures 1 and 3 and spatial motion detection depicted in figures 1 and 4; also refer to figure 11).

Regarding claim 8, this claim is also rejected for the same reasons as set forth in claim 1 above.

Regarding claim 16, Ward further teaches an operation section that selects a channel in which a broadcast signal modulated as the encoded picture data has been received or a channel in which a broadcast signal demodulated as the moving picture data has been received (see switch shown in figure 10A which outputs “baseband output” and switch included in the encoder show in figure 10B; selection means for supplying the decoded picture data or the non-encoded picture data to the picture process means (see figures 10A and 10B: note output from RAM bank to

Processor); and control means for controlling the selection means according to channel information selected by the operation section (see set-top digital video decoder with analog demodulation shown in figure 10 and set-top digital video decoder with digital demodulation shown in figure 10B).

Allowable Subject Matter

4. Claims 7 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 6:00AM to 2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew C. Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dmd
7/2010

/Duy M Dang/
Primary Examiner, Art Unit 2624

Application/Control Number: 10/557,980
Art Unit: 2624

Page 6